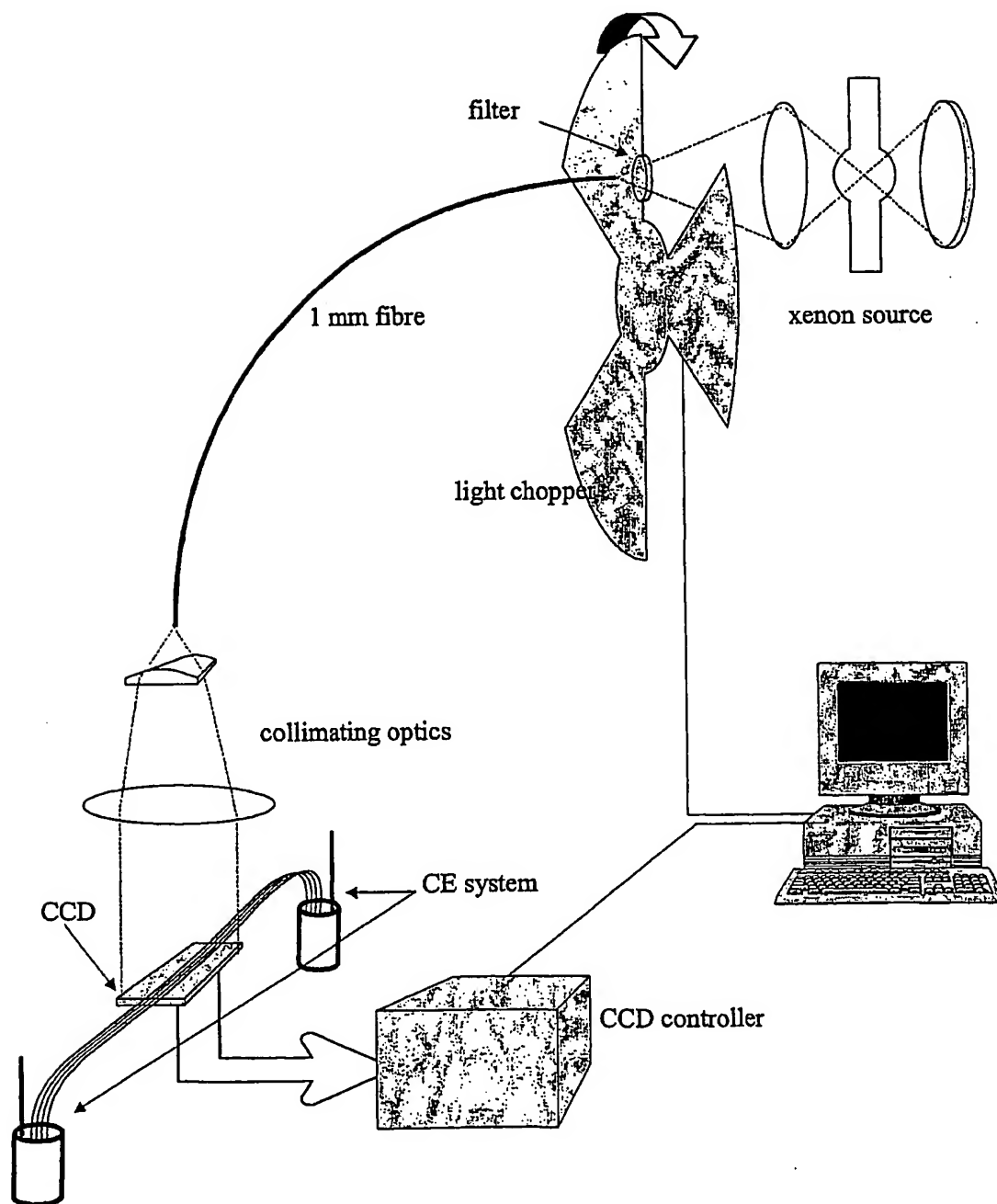


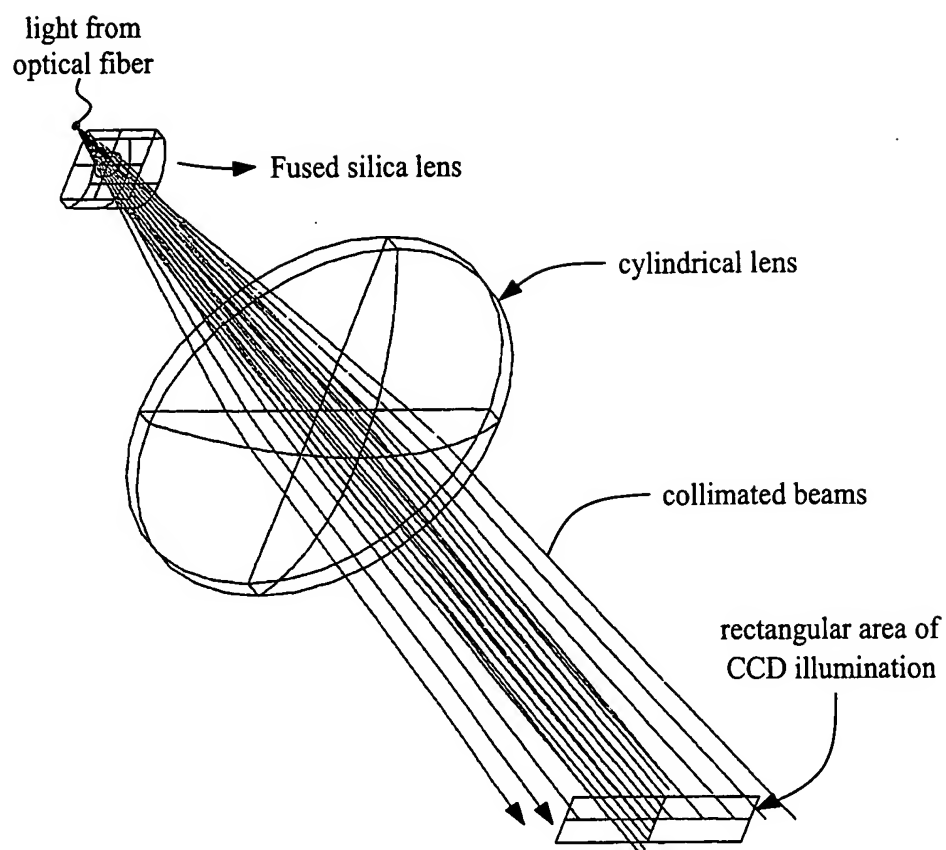
REPLACEMENT SHEET



Schematic diagram of experimental apparatus for parallel capillary absorbance detection

FIG. 1

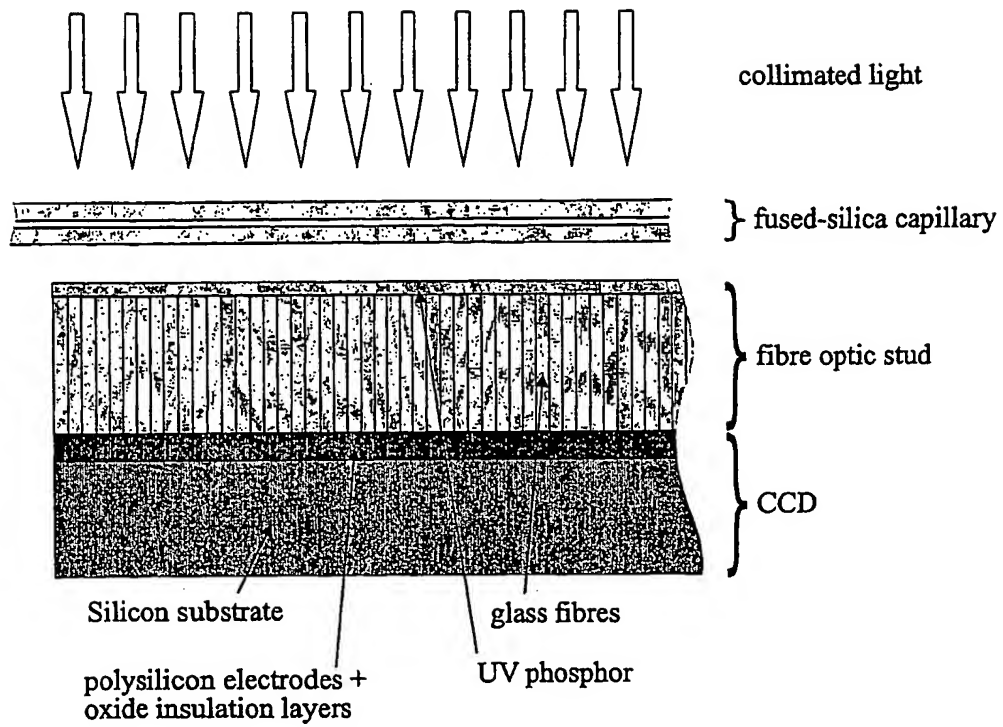
REPLACEMENT SHEET



Collimated illumination of rectangular CCD area, (26.6 x 6.7 mm) using light output from a 1 mm diameter fused-silica optical fibre (N.A. = 0.22) using a cylindrical and spherical fused-silica lens elements.

FIG. 2

# REPLACEMENT SHEET



Detail of CCD with fibre optic stud and imaging of capillaries

FIG. 3

# REPLACEMENT SHEET

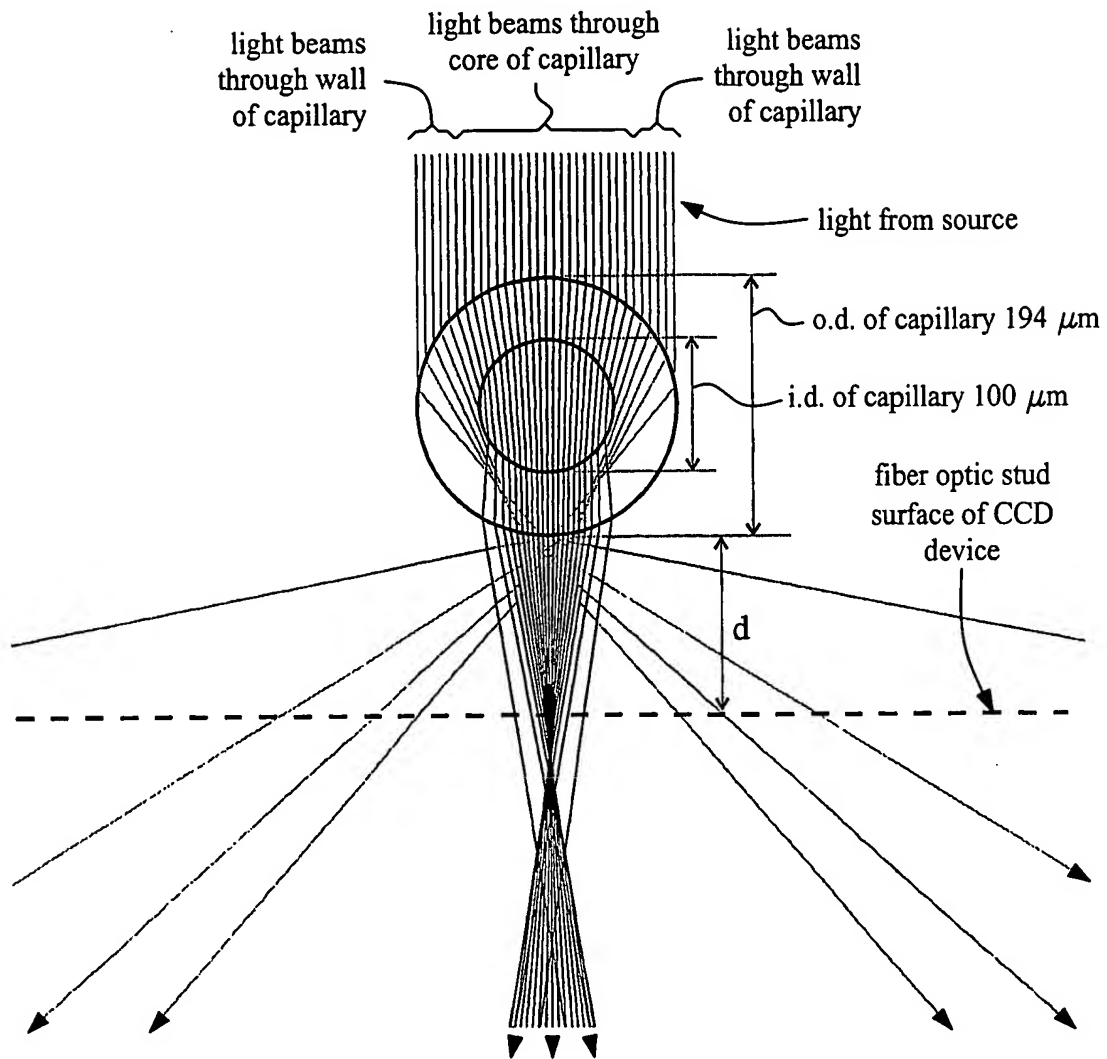


Part of one CCD snapshot showing ~3 mm of 4 capillaries (100  $\mu$ m i.d., 194  $\mu$ m o.d.); the total area imaged is 6.7 x 26.6 mm. The contents of the capillaries are, 1. air, 2. water, 3 & 4 ink solution.

FIG. 4

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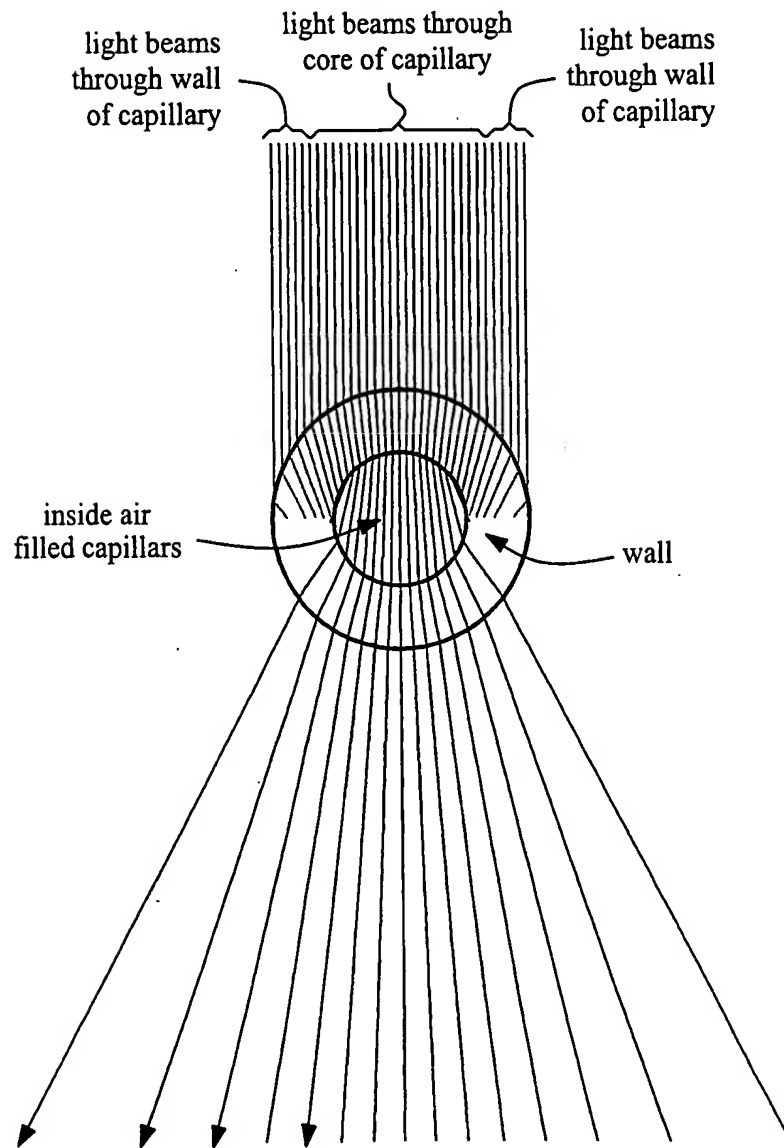


Water-filled capillary,  $100\ \mu\text{m}$  i.d.,  $194\ \mu\text{m}$  o.d.

FIG. 5

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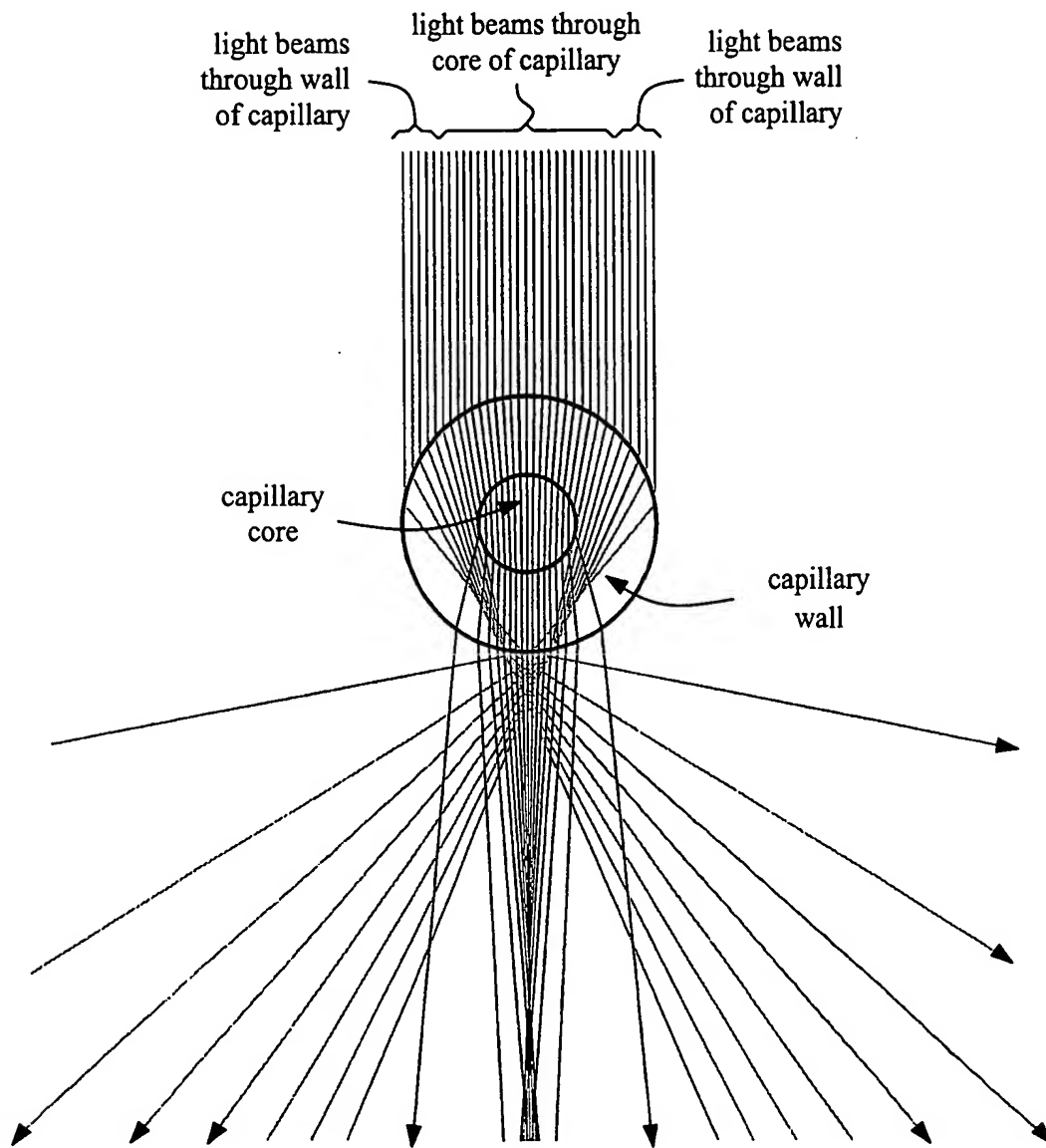
REPLACEMENT SHEET



Water-filled capillary, 100  $\mu\text{m}$  i.d., 194  $\mu\text{m}$  o.d.

FIG. 6

REPLACEMENT SHEET



Water-filled capillary, 75  $\mu\text{m}$  i.d., 194  $\mu\text{m}$  o.d.

FIG. 7

REPLACEMENT SHEET

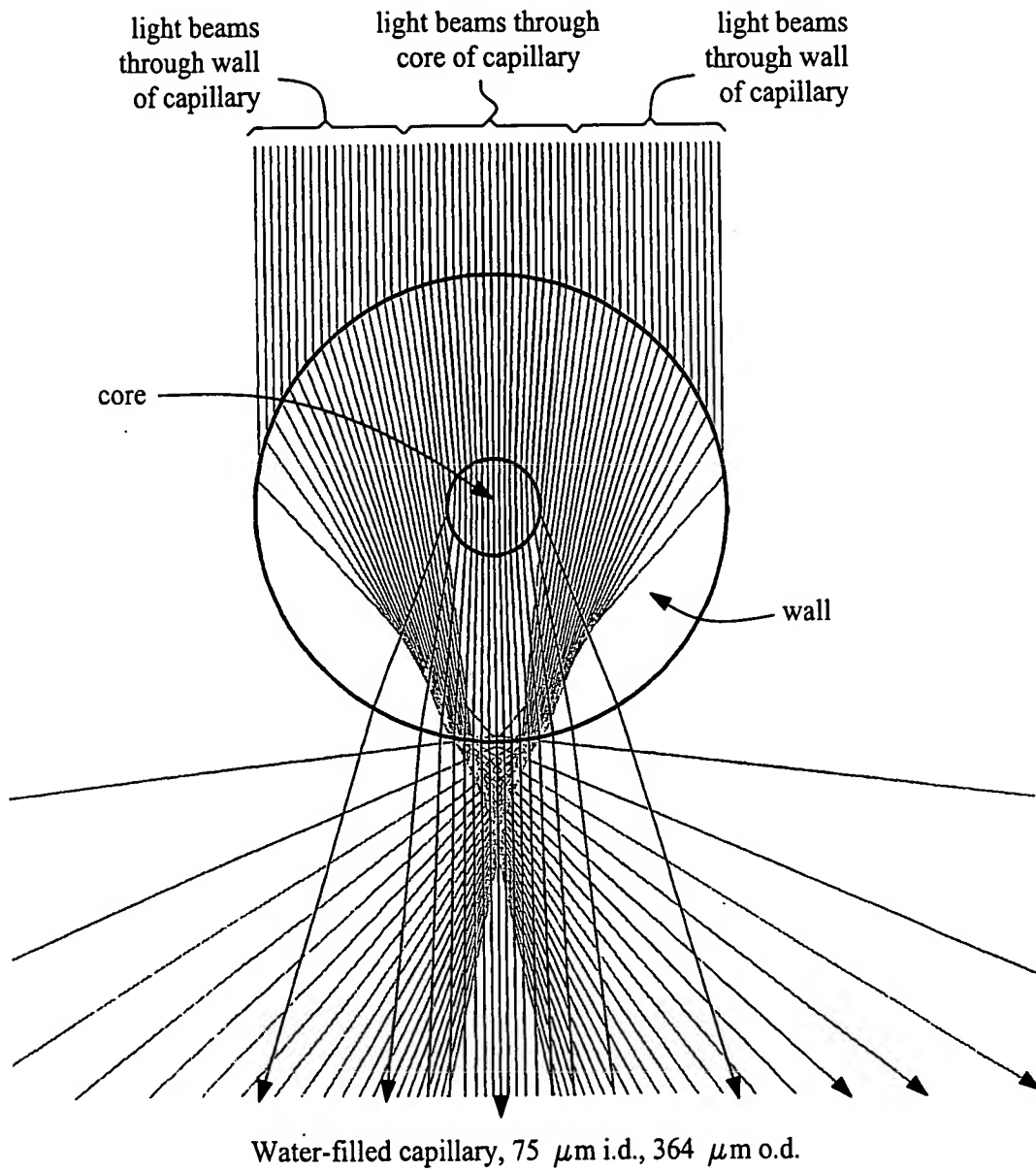
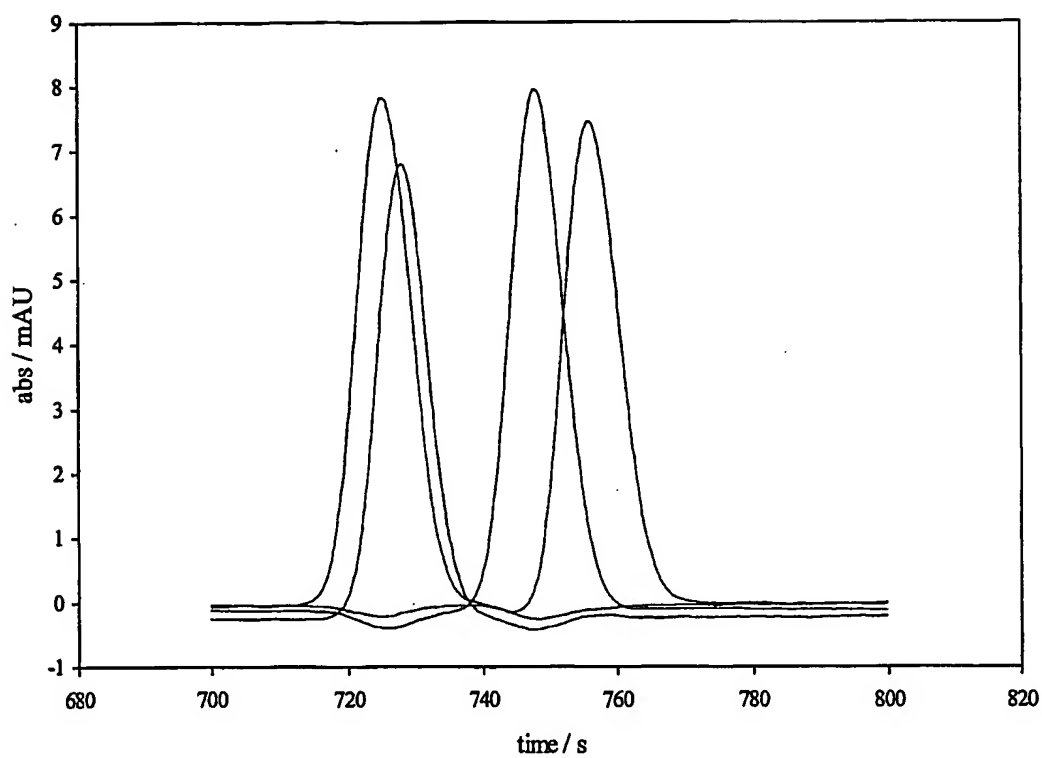


FIG. 8



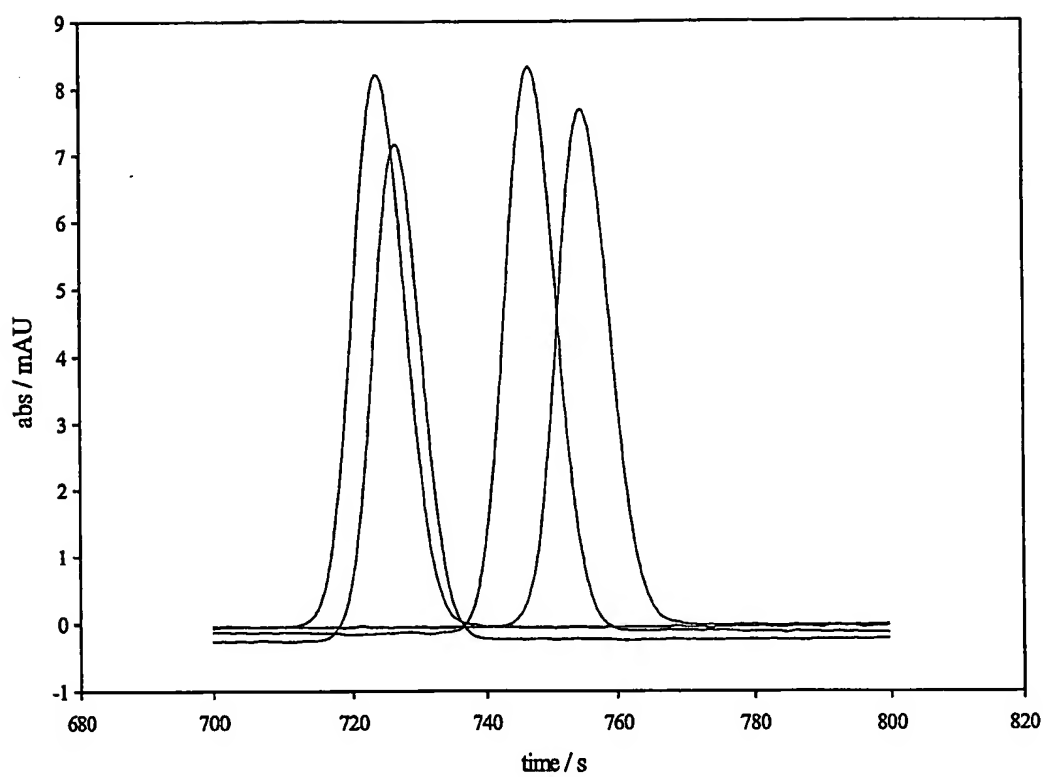
# REPLACEMENT SHEET



Electropherograms of ~16 nL 100  $\mu$ M p-nitrophenol injected into each of four parallel 100  $\mu$ m i.d. capillaries. Capillary length: 500 mm total, 300 mm to the detector. Separation voltage: 5000 V. Buffer: sodium phosphate pH 7.5 (15 mM sodium).

FIG. 9

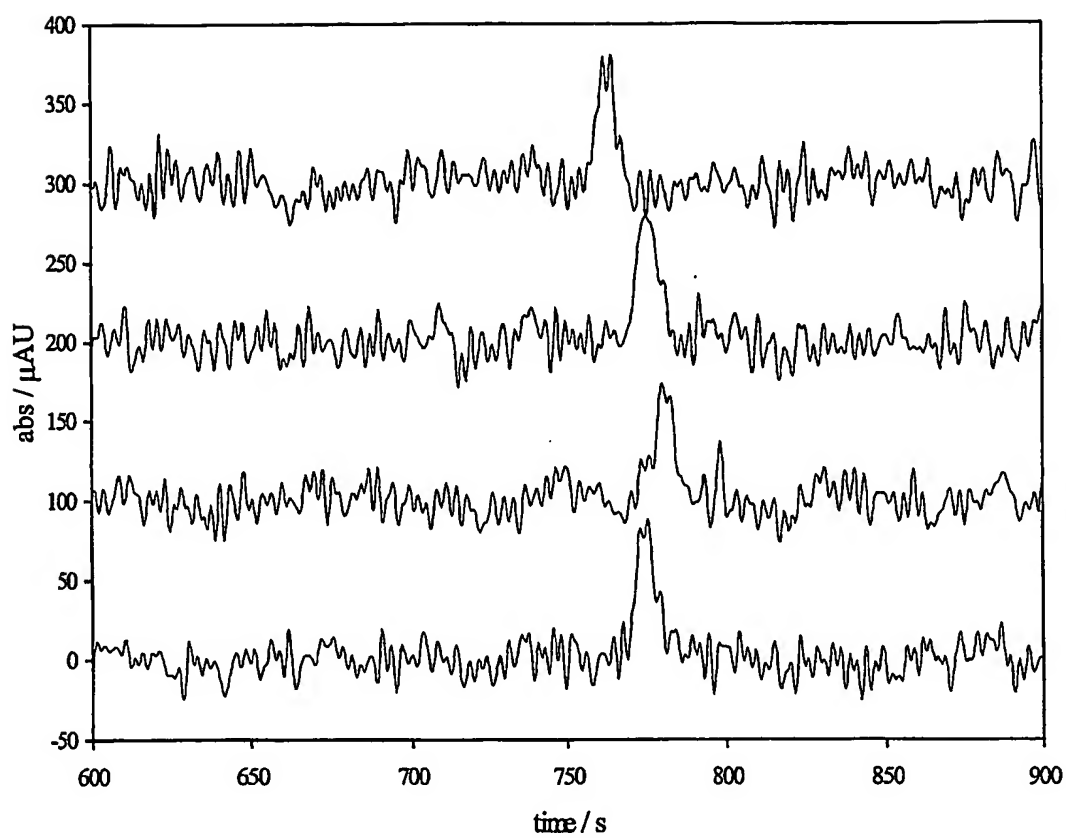
REPLACEMENT SHEET



Electropherograms of 100  $\mu$ M p-nitrophenol after correction for cross-talk between capillaries.

FIG. 10

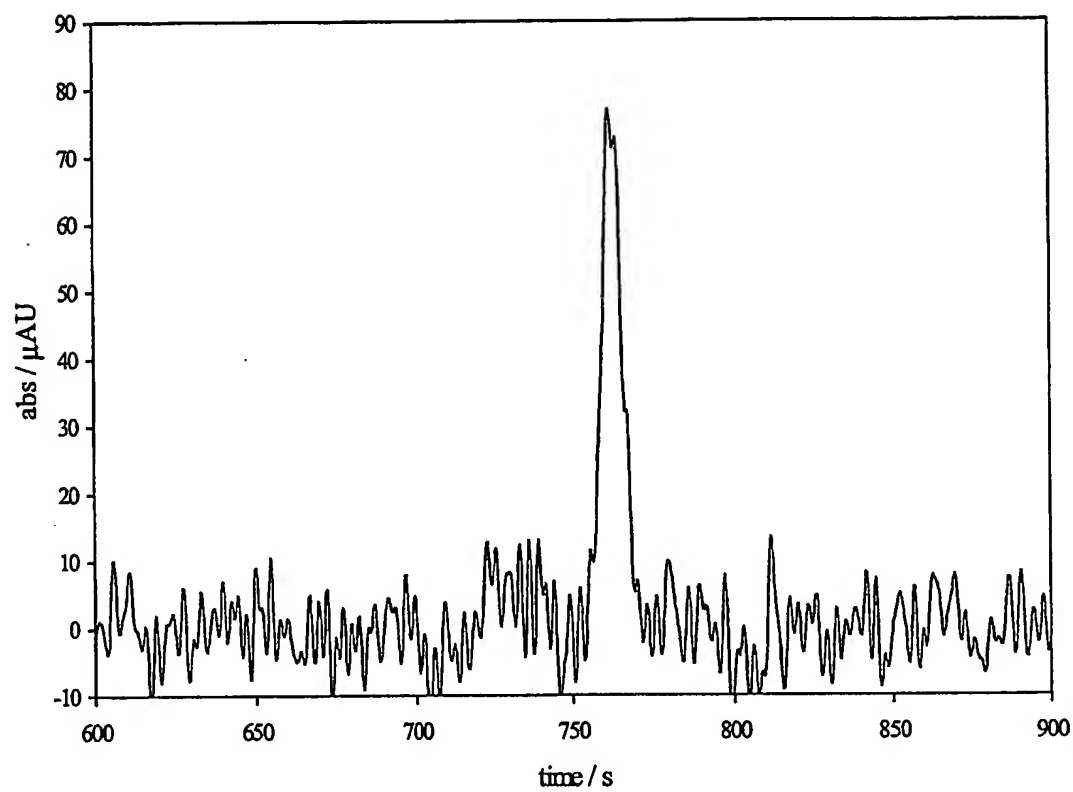
REPLACEMENT SHEET



Electropherograms of  $\sim 16$  nL  $1 \mu\text{M}$  p-nitrophenol injected into each capillary.

FIG. 11

# REPLACEMENT SHEET



Electropherograms generated by taking the average of the four traces shown in figure 11.

**FIG. 12**

# REPLACEMENT SHEET

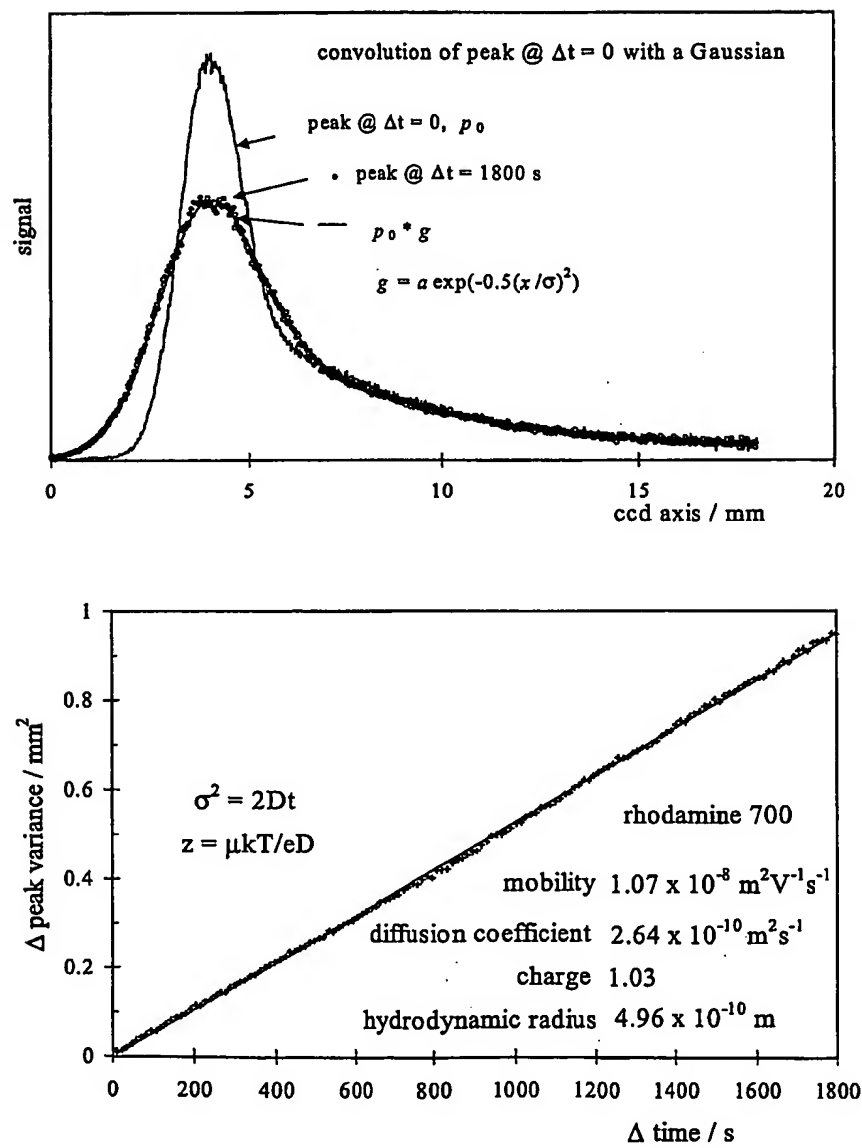


FIG. 13

REPLACEMENT SHEET

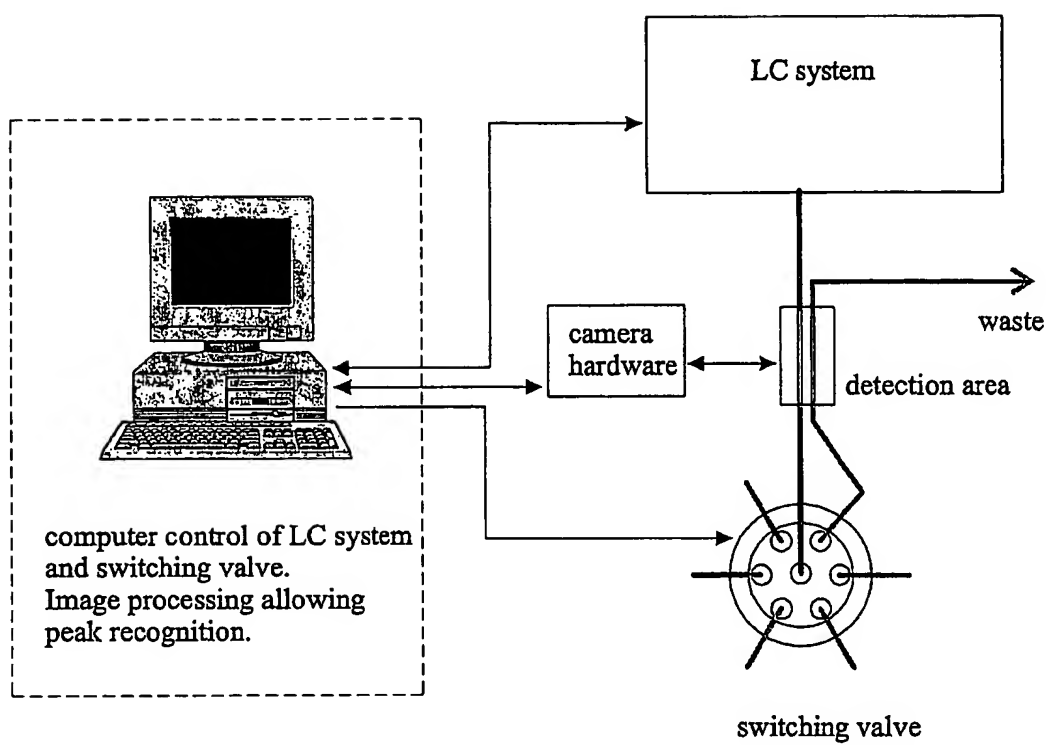


FIG. 14

REPLACEMENT SHEET

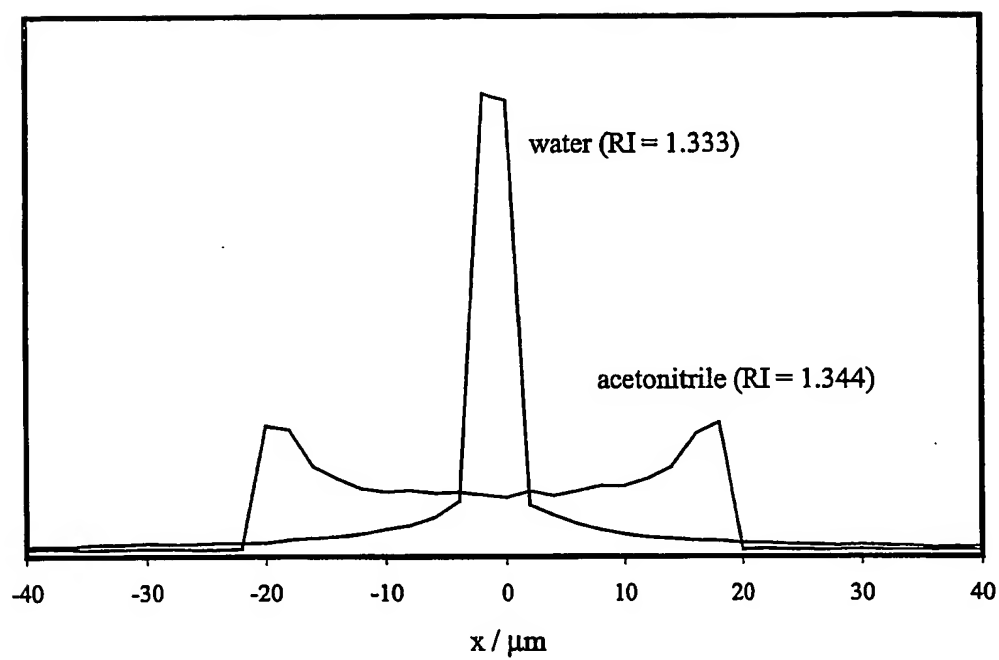


FIG. 15

REPLACEMENT SHEET

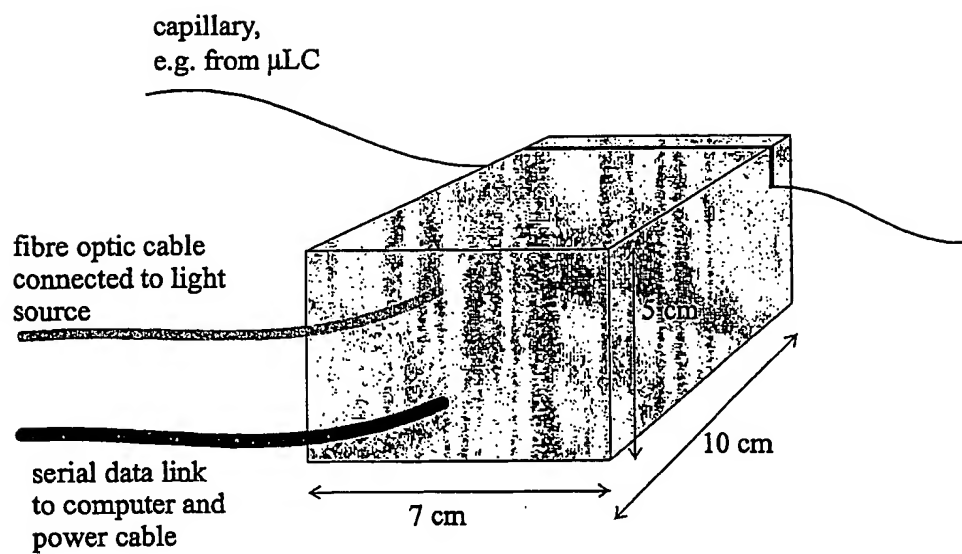
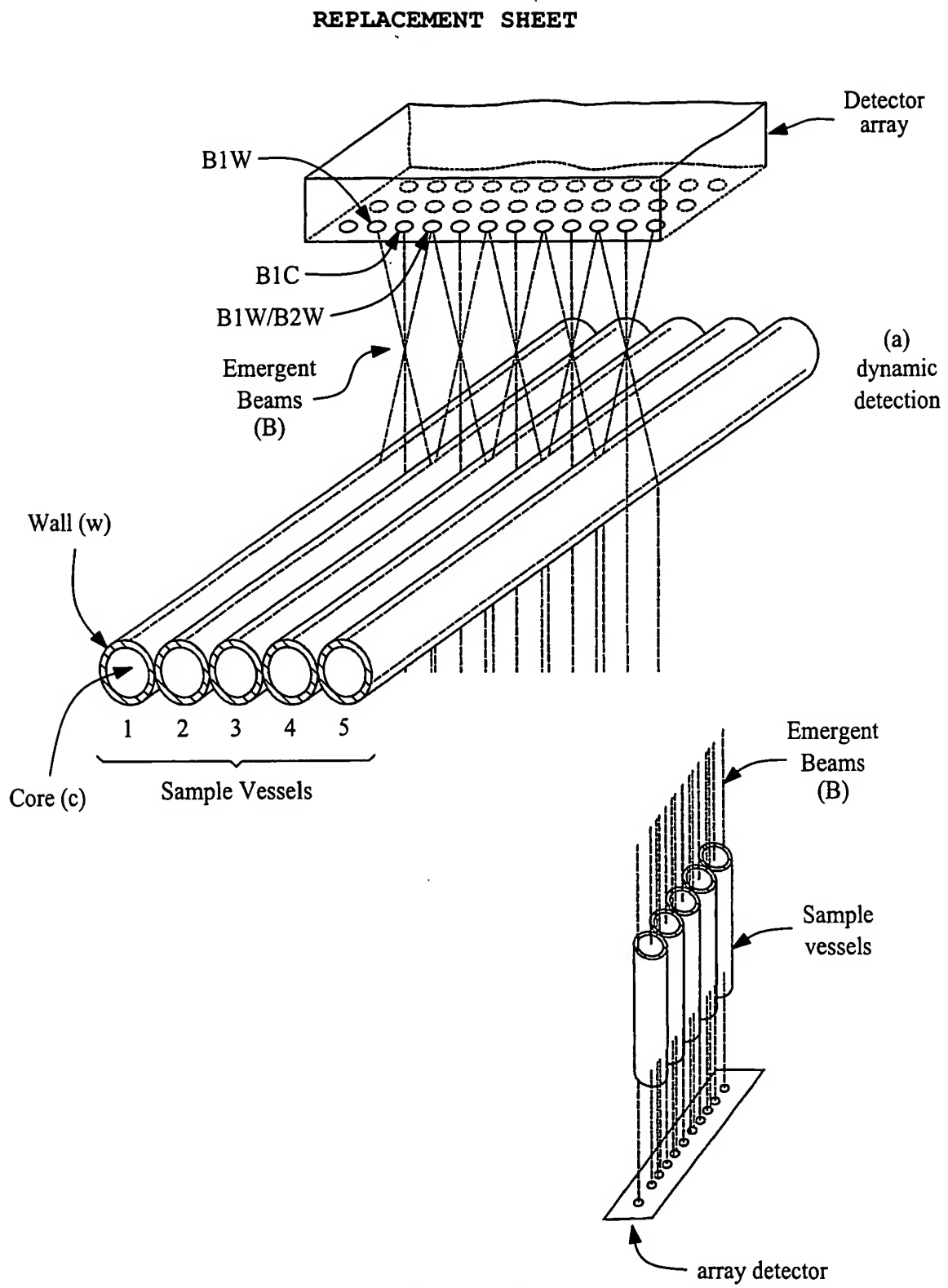


FIG. 16





**FIG. 17**